

Serial No.: 10/772,181
Amendment dated December 18, 2006
Reply to Office Action dated August 17, 2006

Amendments to the Claims:

The following listing of claims replaces all prior versions and listings of the claims in this application.

Listing of the Claims:

Claims 1-15 (Cancelled).

Claim 16 (Currently Amended): A dry film formed from a curable resin composition comprising

(a) a cycloolefin polymer containing a polar group, wherein the polar group is selected from the group consisting of a carboxyl group and a hydroxyl group and the rate of introduction of the polar group in the cycloolefin polymer is within a range of 0.1-100 mol % based on the total number of units in the polymer, and at least 50 mol % of a repeating unit derived from a cycloolefin monomer, and having a number average molecular weight within a range of 1,000 to 1,000,000 as measured by gel permeation chromatography, and

(b) a hardener selected from the group consisting of an organic peroxide and a hardener capable of exhibiting its effect by heat.

Claim 17 (Currently Amended): The dry film according to Claim 16, wherein the cycloolefin polymer ~~contains at least 50 mol % of a repeating unit derived from a cycloolefin monomer and~~ has a glass transition temperature of at least 100°C as measured by a differential scanning calorimeter.

Claim 18 (Currently Amended): The dry film according to Claim 16, wherein the cycloolefin polymer has a carboxyl polar group.

Serial No.: 10/772,181
Amendment dated December 18, 2006
Reply to Office Action dated August 17, 2006

Claim 19 (Original): The dry film according to Claim 16, wherein the curable resin composition is a varnish further comprising an organic solvent.

Claim 20 (Currently Amended): A process for producing a dry film, the process comprising the steps of applying a curable resin composition comprising

(a) a cycloolefin polymer containing a polar group, wherein the polar group is selected from the group consisting of a carboxyl group and a hydroxyl group and the rate of introduction of the polar group in the cycloolefin polymer is within a range of 0.1-100 mol % based on the total number of units in the polymer, and at least 50 mol % of a repeating unit derived from a cycloolefin monomer, and having a number average molecular weight within a range of 1,000 to 1,000,000 as measured by gel permeation chromatography,

(b) a hardener selected from the group consisting of an organic peroxide and a hardener capable of exhibiting its effect by heat, and

(c) an organic solvent,

to a substrate and removing the organic solvent under conditions that a curing reaction of the curable resin composition is not caused to completely proceed.

Claim 21 (Currently Amended): A laminate comprising an insulating layer formed with a dry film formed from a curable resin composition comprising

(a) a cycloolefin polymer containing a polar group, wherein the polar group is selected from the group consisting of a carboxyl group and a hydroxyl group and the rate of introduction of the polar group in the cycloolefin polymer is within a range of 0.1-100 mol % based on the total number of units in the polymer, and at least 50 mol % of a repeating unit derived from a

Serial No.: 10/772,181
Amendment dated December 18, 2006
Reply to Office Action dated August 17, 2006

cycloolefin monomer, and having a number average molecular weight within a range of 1,000 to 1,000,000 as measured by gel permeation chromatography, and

(b) a hardener selected from the group consisting of an organic peroxide and a hardener capable of exhibiting its effect by heat, and

a conductive layer formed on the surface of the insulating layer.

Claim 22 (Currently Amended): A multi-layer laminate comprising at least two laminates according to claim 21, with the further comprising each at least one insulating layer of the second laminate formed with the dry film formed on the and conductive layer of the first on the conductive layer-forming surface of the laminate according to Claim 21, wherein the conductive layers are connected to each other by forming interlayer-connecting via holes in the insulating layer provided between them.

Claim 23 (Currently Amended): A process for producing a multi-layer laminate, which comprises a step (A) of laminating a dry film formed from a curable resin composition comprising

(a) a cycloolefin polymer containing a polar group, wherein the polar group is selected from the group consisting of a carboxyl group and a hydroxyl group and the rate of introduction of the polar group in the cycloolefin polymer is within a range of 0.1-100 mol % based on the total number of units in the polymer, and at least 50 mol % of a repeating unit derived from a cycloolefin monomer, and having a number average molecular weight within a range of 1,000 to 1,000,000 as measured by gel permeation chromatography, and

(b) a hardener selected from the group consisting of an organic peroxide and a hardener capable of exhibiting its effect by heat

Serial No.: 10/772,181

Amendment dated December 18, 2006

Reply to Office Action dated August 17, 2006

on at least one side of a substrate, conducting the curing of the dry film and the formation of interlayer-connecting via holes, and then forming a conductive layer on the surface of the dry film and wall surfaces of the via holes to produce a laminate, and a step (B) of laminating an additional dry film on the conductive layer-forming surface of the laminate and conducting to ~~conduct~~ the curing of the additional dry film, ~~formation of forming~~ interlayer-connecting via holes and ~~formation of forming~~ a conductive layer on the additional dry film in the same manner as in the step (A), wherein the step (B) is repeated at least once.

Claims 24-30 (Cancelled).

Claim 31 (New): The dry film according to Claim 16, wherein the cycloolefin polymer has a hydroxyl polar group.

Claim 32 (New): The dry film according to Claim 16, wherein the rate of introduction of the polar group in the cycloolefin polymer is within a range of 1 to 50 mol %.

Claim 33 (New): The dry film according to Claim 16, wherein the rate of introduction of the polar group in the cycloolefin polymer is within a range of 5 to 30 mol %.

Claim 34 (New): The dry film according to Claim 16, wherein the cycloolefin polymer contains at least 70 mol % of a repeating unit derived from a cycloolefin monomer.

Claim 35 (New) The dry film according to Claim 16, wherein the cycloolefin polymer contains at least 80 mol % of a repeating unit derived from a cycloolefin monomer.

Serial No.: 10/772,181
Amendment dated December 18, 2006
Reply to Office Action dated August 17, 2006

Claim 36 (New): The dry film according to Claim 17, wherein the cycloolefin polymer has a glass transition temperature of at least 140° C as measured by a differential scanning calorimeter.

Claim 37 (New): The dry film according to Claim 17, wherein the cycloolefin polymer has a glass transition temperature of at least 180° C as measured by a differential scanning calorimeter.

Claim 38 (New): The dry film according to Claim 16, wherein the cycloolefin polymer has a number average molecular weight within a range of 3000 to 500,000.

Claim 39 (New): The dry film according to Claim 16, wherein the cycloolefin polymer has a number average molecular weight within a range of 10,000 to 200,000.

Claim 40 (New): The multi-layer laminate according to Claim 22, wherein at least one via hole has a diameter of, at most, 200 μm .

Claim 41 (New): The multi-layer laminate according to Claim 22, wherein the via holes have a diameter of, at most, 200 μm .

Claim 42 (New): The process for producing a multi-layer laminate according to Claim 23, wherein the via holes have a diameter of, at most, 200 μm .